

AMENDMENTS TO THE CLAIMS

Following is a complete set of claims as amended with this Response. This complete set of claims includes amended claims 2-8 and 12-19 and new claims 21-26.

1. (Previously Cancelled)
2. (Currently Amended) The lead system of claim 14, further comprising a plurality of electrodes in electrical contact with the at least one conductor.
3. (Currently Amended) The lead system of claim 14, further comprising a radiation conduit capable of delivering radiation to the site.
4. (Currently Amended) The lead system of claim 3 wherein the radiation comprises a member selected from the group consisting of UV radiation, visible radiation, IR radiation, electrical radiation and/or magnetic radiation.
5. (Currently Amended) The lead system of claim 14, wherein the lead body defines the one or more channels.
6. (Currently Amended) The lead system of claim 3, wherein the lead body houses the radiation conduit.
7. (Currently Amended) The lead system of claim 14 and further comprising: a sheath surrounding the lead body.
8. (Currently Amended) The assembly lead system of claim 7, wherein the sheath is rotatable with respect to the lead body.

9. (Withdrawn) A method comprising:
positioning a distal end of a lead having one or more electrodes in a patient's body adjacent a nerve; and
delivering adhesive from the lead to secure the lead in place with the one or more electrodes in electrical contact with the nerve.
10. (Withdrawn) The method of claim 9, further comprising delivering radiation to the adhesive.
11. (Withdrawn) The method of claim 9, further comprising administering nerve stimulation therapy via the one or more electrodes.
12. (Currently Amended) The lead system of claim 14, wherein a distal end of the channel is adjacent to the at least one electrode, and wherein the lead body is secured to the tissue at a distal end of the lead body.
13. (Currently Amended) The lead system of claim 12, wherein the fixation member is disposed between the tissue and the at least one electrode.
14. (Currently Amended) A lead system configured for stimulating a nerve of a patient, the lead system comprising:
a reservoir module storing an adhesive or an adhesive component;
a lead body having a proximal end and a distal end, the reservoir coupled to the proximal end of the lead body;
at least one conductor extending through the lead body;
at least one electrode on the lead body and in electrical contact with the at least one conductor;
one or more channels that allow for a flow of the adhesive or [[an]] adhesive component to a nerve site to establish electrical contact between the nerve and the at least one electrode; and

an adhesive member adaptive to fixate the lead body to tissue of the patient, the adhesive member comprising the adhesive or adhesive component to the nerve;

wherein the one or more channels comprises a first channel and a second channel, the first channel allowing flow of a first chemical component of the adhesive or the adhesive component and the second channel allowing flow of a second chemical component of the adhesive or the adhesive component, and wherein the first chemical component and the second chemical component are delivered to the tissue at the nerve site.

15. (Currently Amended) A lead system configured for stimulating a nerve of a patient, the lead system comprising:

a reservoir module storing a first adhesive chemical component and a second adhesive chemical component;

a lead body having a distal end and a proximal end, the proximal end of the lead body coupled to the reservoir module;

a conductor extending through the lead body;

an electrode on the lead body and in electrical contact with the conductor, the electrode coupled to the nerve of the patient;

an adhesive channel directing flow of an adhesive or an adhesive component to tissue of the patient; and

a first adhesive channel within the lead body, the first adhesive channel directing flow of the first adhesive chemical component to tissue of the patient;

a second adhesive channel within the lead body, the second adhesive channel directing flow of the second adhesive chemical component to the tissue of the patient;

wherein the first chemical adhesive component and the second adhesive chemical component are delivered to the tissue at the nerve site; and

an adhesive member adapted to fixate the lead body to tissue of the patient, the adhesive member comprising the ~~adhesive or the adhesive component~~: first adhesive chemical component and the second adhesive chemical component.

wherein the adhesive channel comprises a first channel and a second channel, the first channel allowing flow of a first chemical component of the adhesive or the adhesive component and the second channel allowing flow of a second chemical component of the adhesive or the adhesive component, and wherein the first chemical component and the second chemical component are delivered to the tissue at the nerve site.

16. (Currently Amended) The lead system of claim 15, wherein the adhesive channel terminates at a side opening disposed at a side of the lead body to deliver the ~~adhesive or the adhesive component~~ first adhesive chemical component and the second adhesive chemical component at an intermediate region between the proximal and distal end of the lead body, and wherein the adhesive member fixates the lead at the intermediate region between the proximal and distal end of the lead body.

17. (Currently Amended) The lead system of claim 16, further comprising a radiation conduit delivering radiation to a site of the adhesive member, the radiation conduit having a side opening adjacent to the opening of the adhesive channel.

18. (Currently Amended) The lead system of claim 15, wherein the adhesive member is disposed at the nerve of the patient to establish electrical contact between the nerve and the electrode.

19. (Currently Amended) A lead system for securing an implantable lead in a patient, the system comprising:

- a reservoir module storing an adhesive or an adhesive component;

- a lead configured for stimulating a nerve of a patient, the lead comprising:

- a lead body having a proximal end and a distal end;

- a conductor extending through the lead body;

- an electrode on the lead body and in electrical contact with the conductor,
- the electrode coupled to the nerve of the patient;

an adhesive channel directing flow of an adhesive or an adhesive component from the reservoir module to tissue of the patient;

wherein the ~~one or more channels~~ adhesive channel comprises a first channel and a second channel, the first channel allowing flow of a first chemical component of the adhesive or the adhesive component and the second channel allowing flow of a second chemical component of the adhesive or the adhesive component, and wherein the first chemical component and the second chemical component are delivered to the tissue at the nerve site; and

an adhesive member adapted to fixate the lead body to the tissue of the patient, the adhesive member comprising the adhesive or the adhesive component.

20. (Previously Presented) The lead system of claim 19, further comprising a generator module delivering radiation to a site of the adhesive member.

21. (New) The lead system of claim system of claim 14, wherein the adhesive or adhesive component is a liquid.

22. (New) The lead system of claim system of claim 14, further comprising a securing unit coupled to the proximal end of the lead body, wherein the securing unit houses the reservoir module, a generator module, a mechanics module, and a connector module.

23. (New) The lead system of claim system of claim 15, wherein the first adhesive chemical component and the second adhesive chemical component are liquids.

24. (New) The lead system of claim system of claim 15, further comprising a securing unit coupled to the proximal end of the lead body, wherein the securing unit houses the reservoir module, a generator module, a mechanics module, and a connector module.

25. (New) The lead system of claim system of claim 19, wherein the adhesive or adhesive component is a liquid.

26. (New) The lead system of claim system of claim 19, further comprising a securing unit coupled to the proximal end of the lead body, wherein the securing unit houses the reservoir module, a generator module, a mechanics module, and a connector module.